

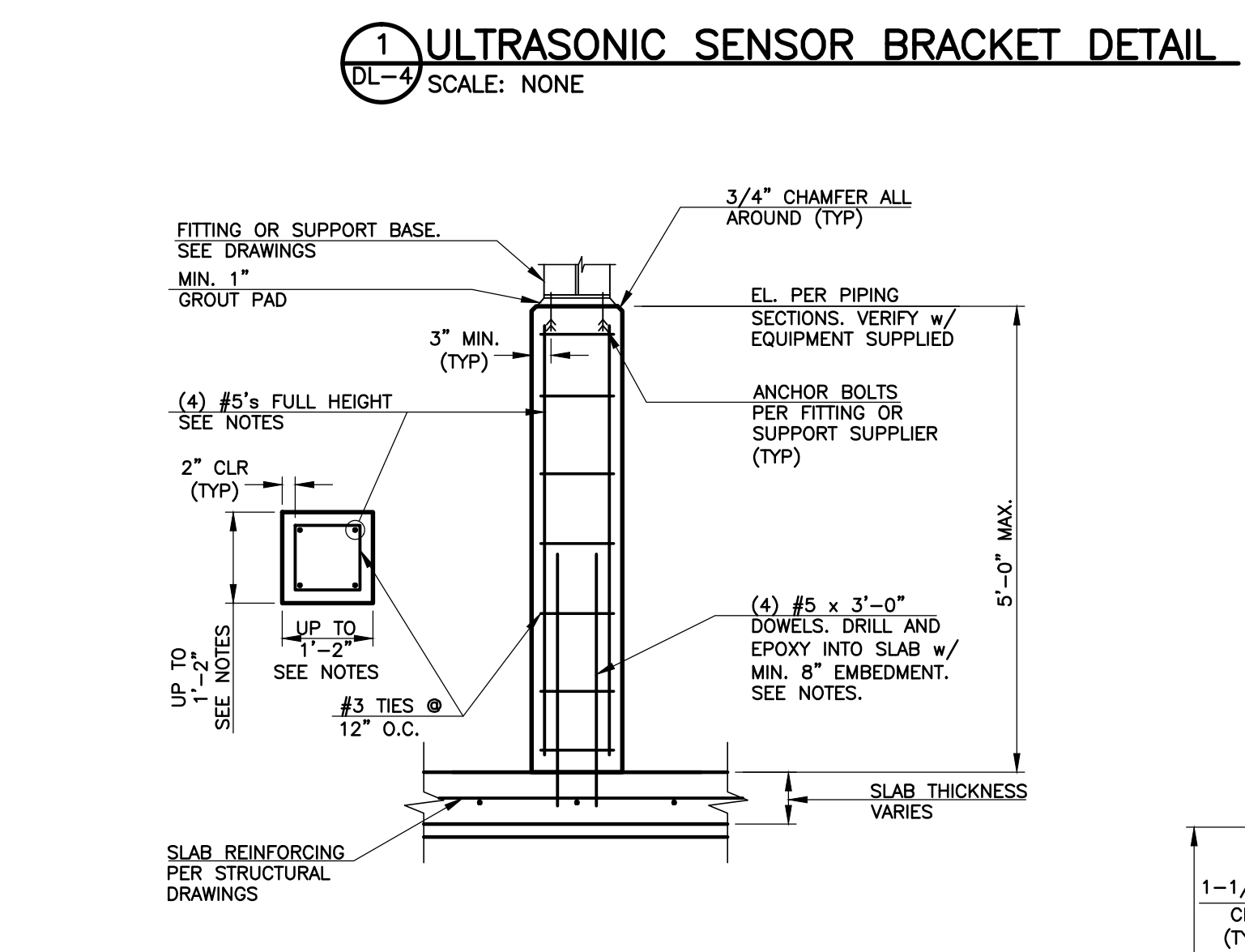
**1 ULTRASONIC SENSOR BRACKET DETAIL**  
DL-4 SCALE: NONE

- NOTES:  
1. CONCRETE REINFORCEMENT NOT SHOWN.  
2. WRAP ULTRASONIC LEVEL SENSOR WITH NEOPRENE BEFORE INSTALLING IN PIPE CLAMP.  
3. POSITION ULTRASONIC LEVEL SENSOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

**2 TYPICAL IN-SLAB CONDUIT DETAIL**  
DL-4 SCALE: NONE

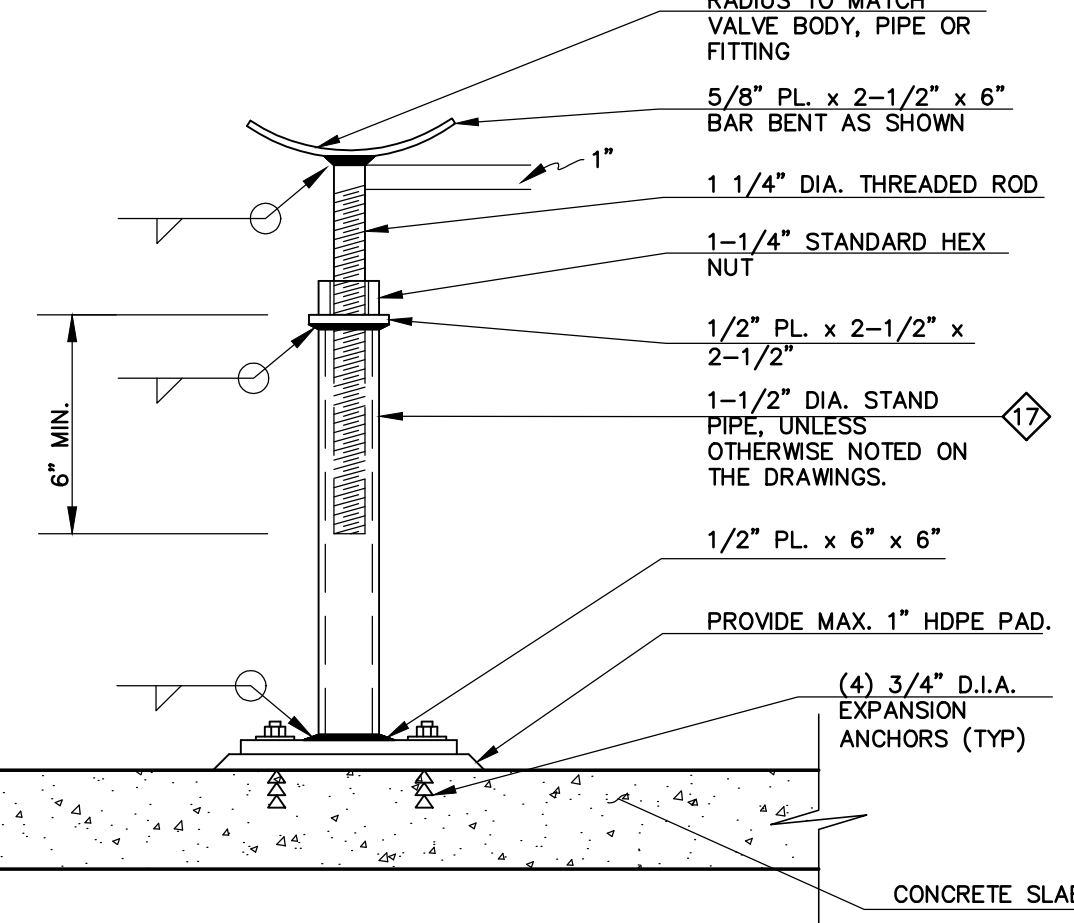
**3 EQUIPMENT PAD DETAIL**  
DL-4 SCALE: NONE

**4 KOR-N-SEAL BOOT DETAIL**  
DL-4 SCALE: NONE



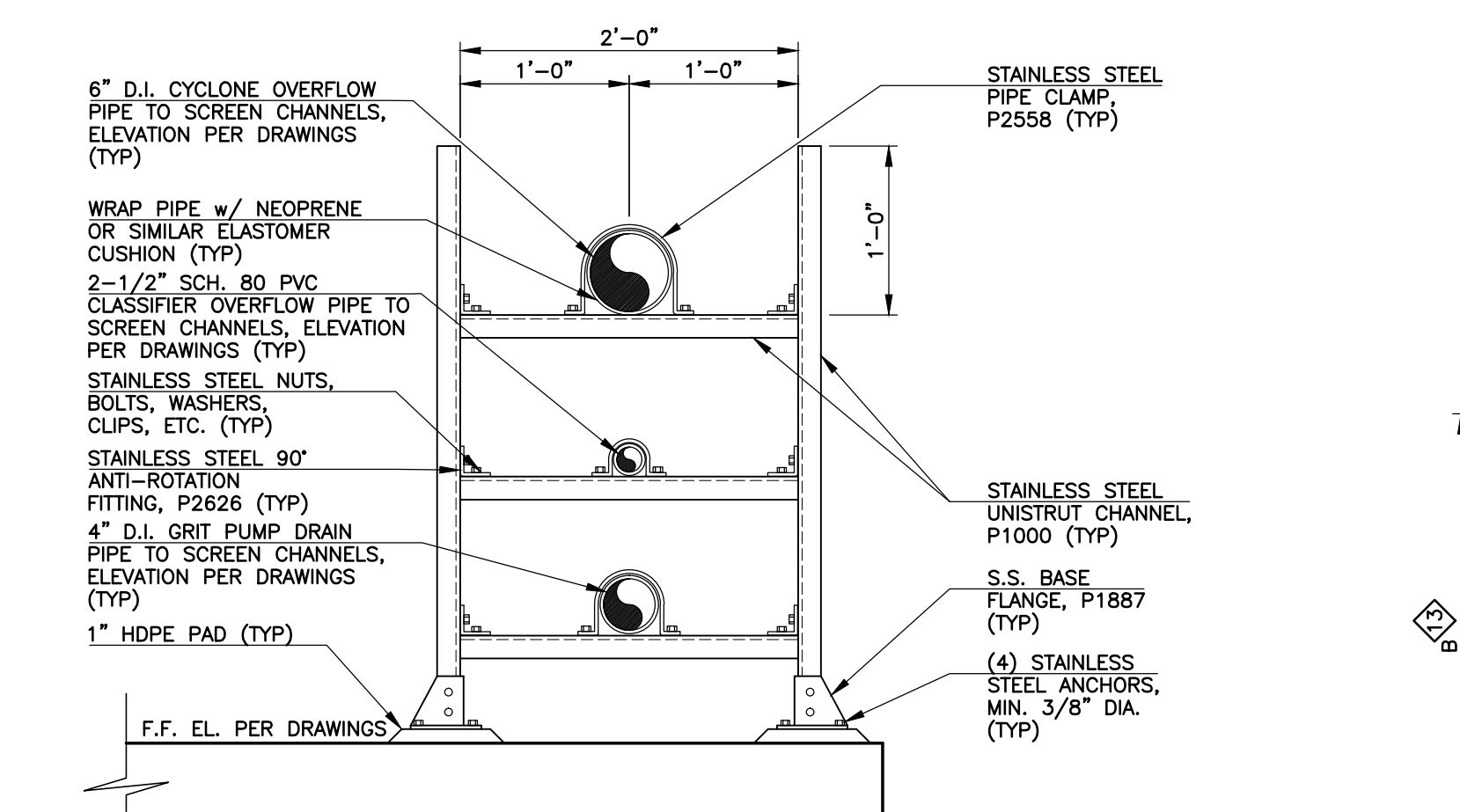
**1 ULTRASONIC SENSOR BRACKET DETAIL**  
DL-4 SCALE: NONE

- NOTES:  
1. CONCRETE REINFORCEMENT NOT SHOWN.  
2. WRAP ULTRASONIC LEVEL SENSOR WITH NEOPRENE BEFORE INSTALLING IN PIPE CLAMP.  
3. POSITION ULTRASONIC LEVEL SENSOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS



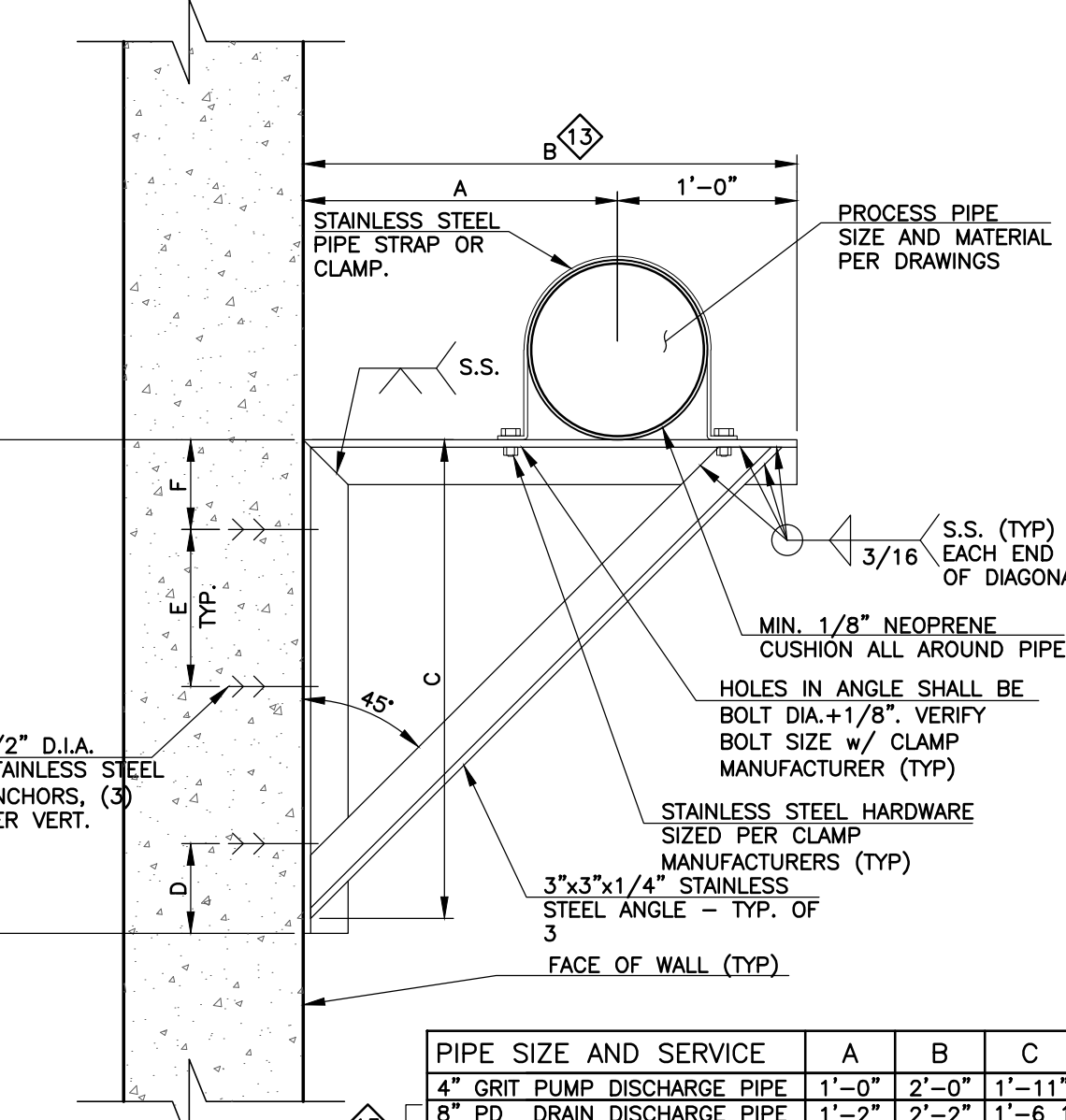
**6 TYPICAL FLOOR PIPE SUPPORT**  
DL-4 SCALE: NONE

- NOTES:  
1. PROVIDE PIPE SUPPORT COMPONENTS IN THE MATERIAL TYPE CALLED FOR IN DRAWINGS.



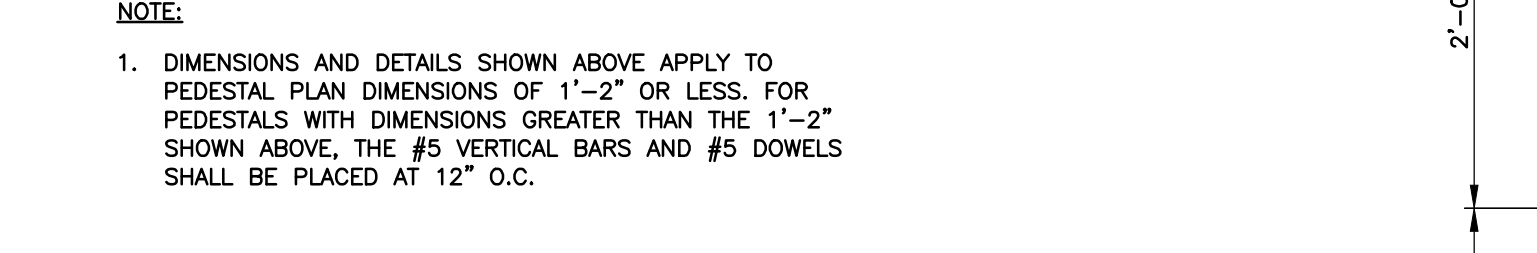
**7 PIPE SUPPORT RACK**  
DL-4 SCALE: NONE

- NOTE:  
1. ALL PART NUMBERS GIVEN ARE FROM THE UNISTRUT® METAL FRAMING SYSTEM. EQUIVALENT PARTS OR MANUFACTURERS MAY BE ACCEPTABLE PROVIDED MATERIAL AND DESIGN LOAD SPECIFICATIONS ARE EQUAL OR BETTER.



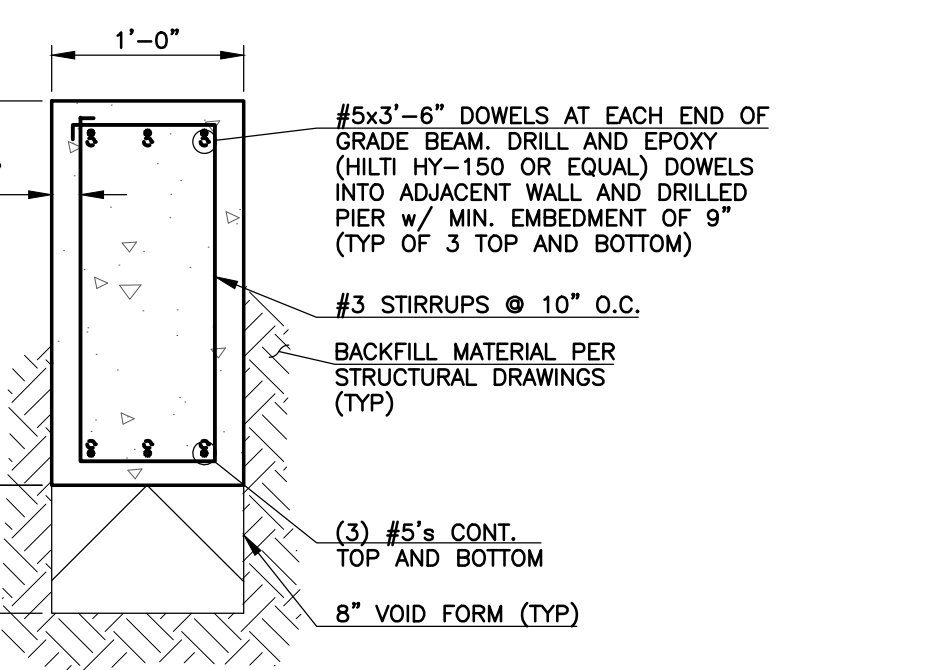
**8 TYPICAL WALL PIPE SUPPORT**  
DL-4 SCALE: NONE

- NOTE:  
1. ALL MOUNTING HARDWARE AND STRUCTURAL SUPPORTS TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED.



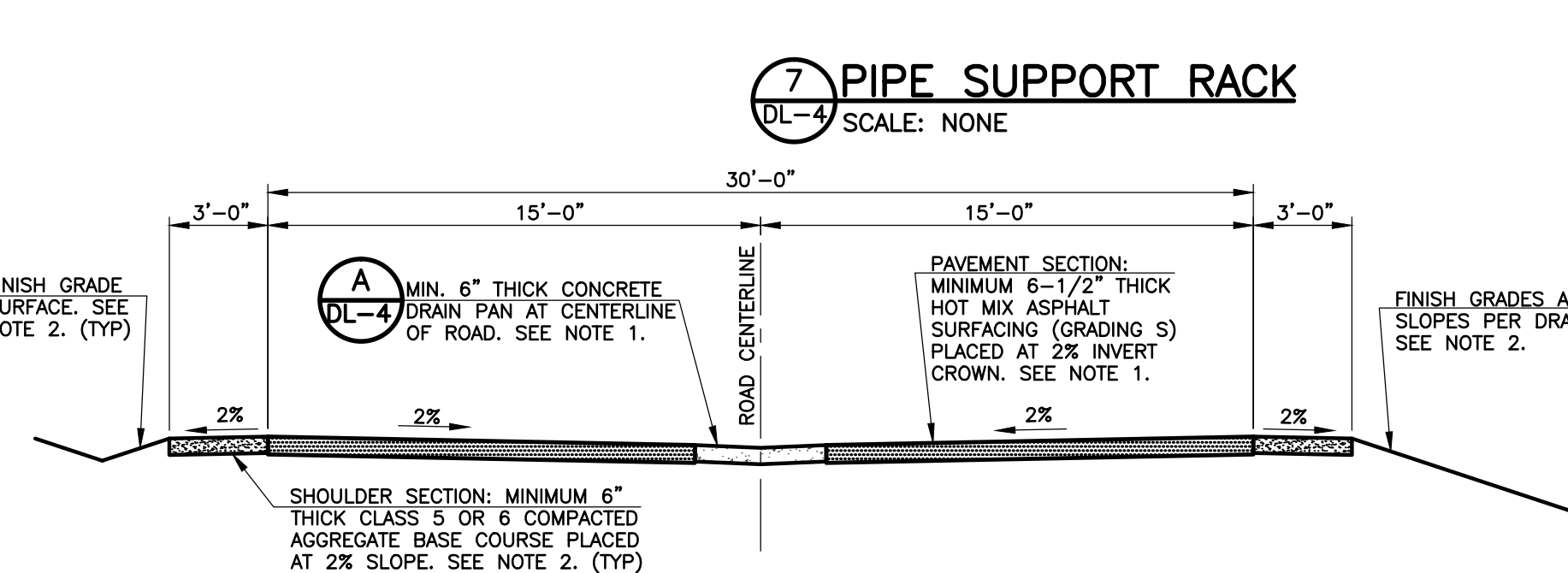
**5 TYPICAL CONCRETE PEDESTAL DETAIL**  
DL-4 SCALE: NONE

- NOTE:  
1. DIMENSIONS AND DETAILS SHOWN ABOVE APPLY TO PEDESTAL PLAN DIMENSIONS OF 1'-2\"/>



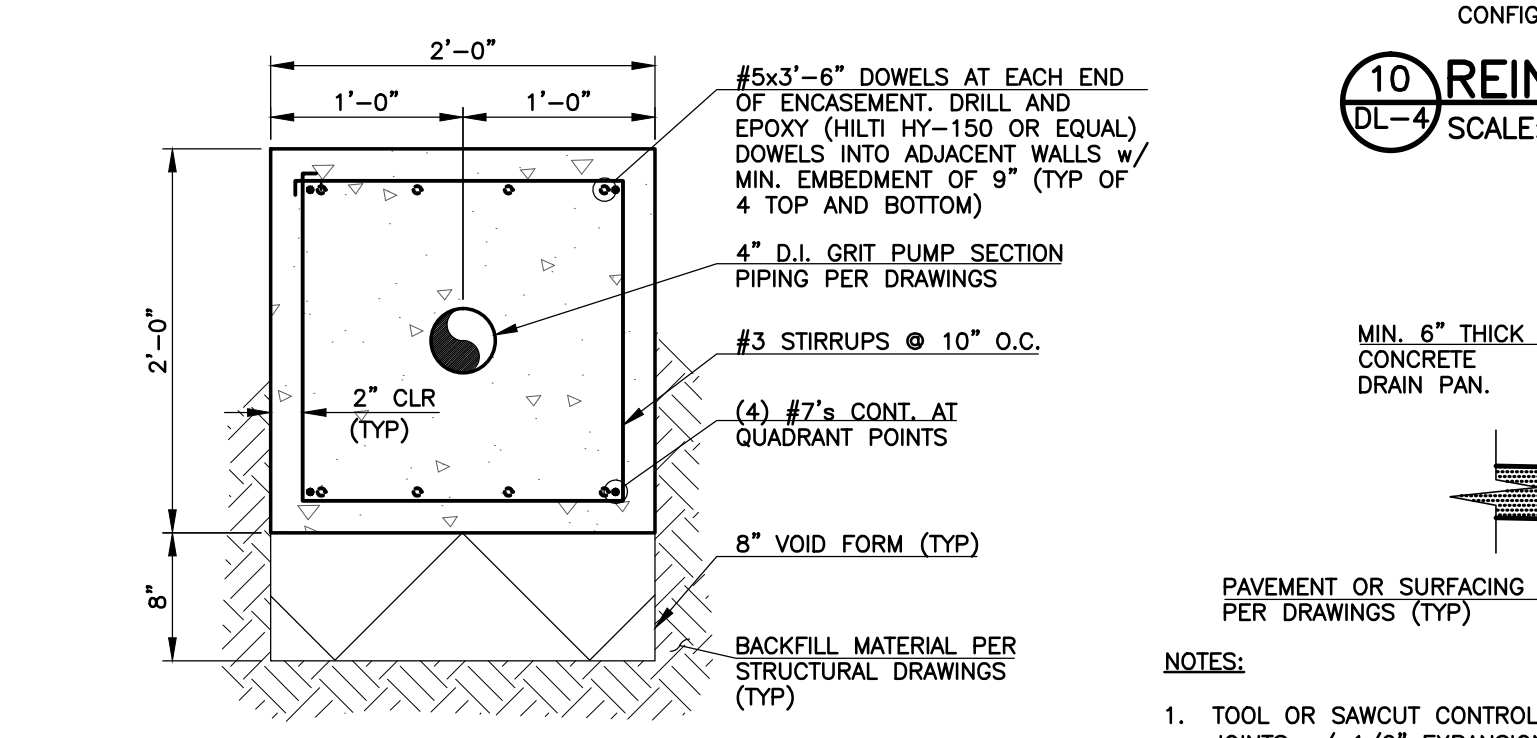
**10 REINFORCED CONCRETE GRADE BEAM**  
DL-4 SCALE: NONE

- NOTE:  
1. MAXIMUM ALLOWABLE SPAN FOR THE CONFIGURATION SHOWN ABOVE SHALL BE 7'-0\"/>



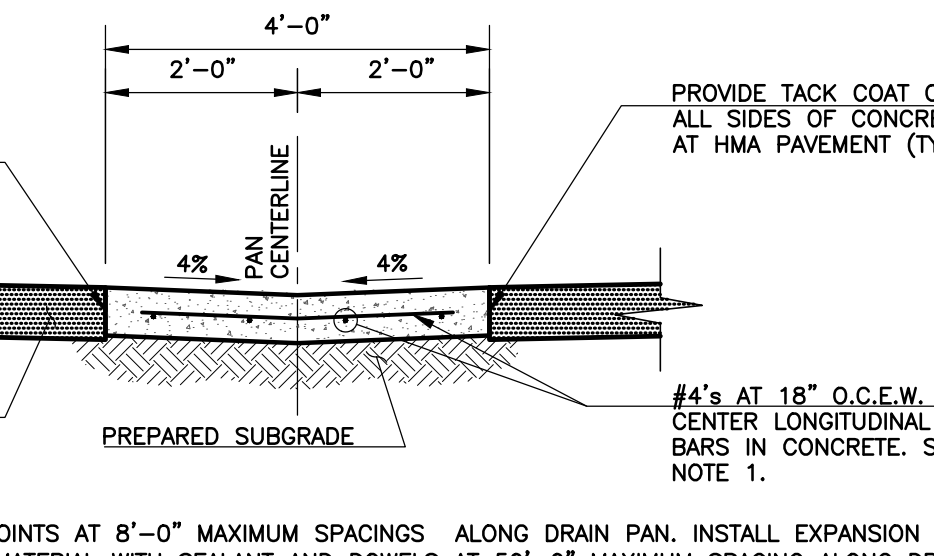
**11 TYPICAL FACILITY ROAD SECTION**  
DL-4 SCALE: 1\"/>

- NOTES:  
1. HOT MIX ASPHALT PAVEMENT SHALL BE PLACED IN INDIVIDUAL LIFTS OF COMPACTED THICKNESS NO LESS THAN 1-1/2 INCHES AND NO GREATER THAN 3 INCHES. PLACE TO ELEVATIONS AND GRADES INDICATED ON THE DRAWINGS, NOT ALL ROADS WILL HAVE INVERTED CROWN WITH CONCRETE DRAIN PAN.  
2. DIRECTION OF SHOULDER SLOPE VARIES WITH FINISH GRADES AND DRAINAGE PATTERNS. REFER TO DETAILED SITE PLANS FOR GRADING AND SLOPE REQUIREMENTS.  
3. TOOL OR SAWCUT CONTROL JOINTS AT 8'-0\"/>



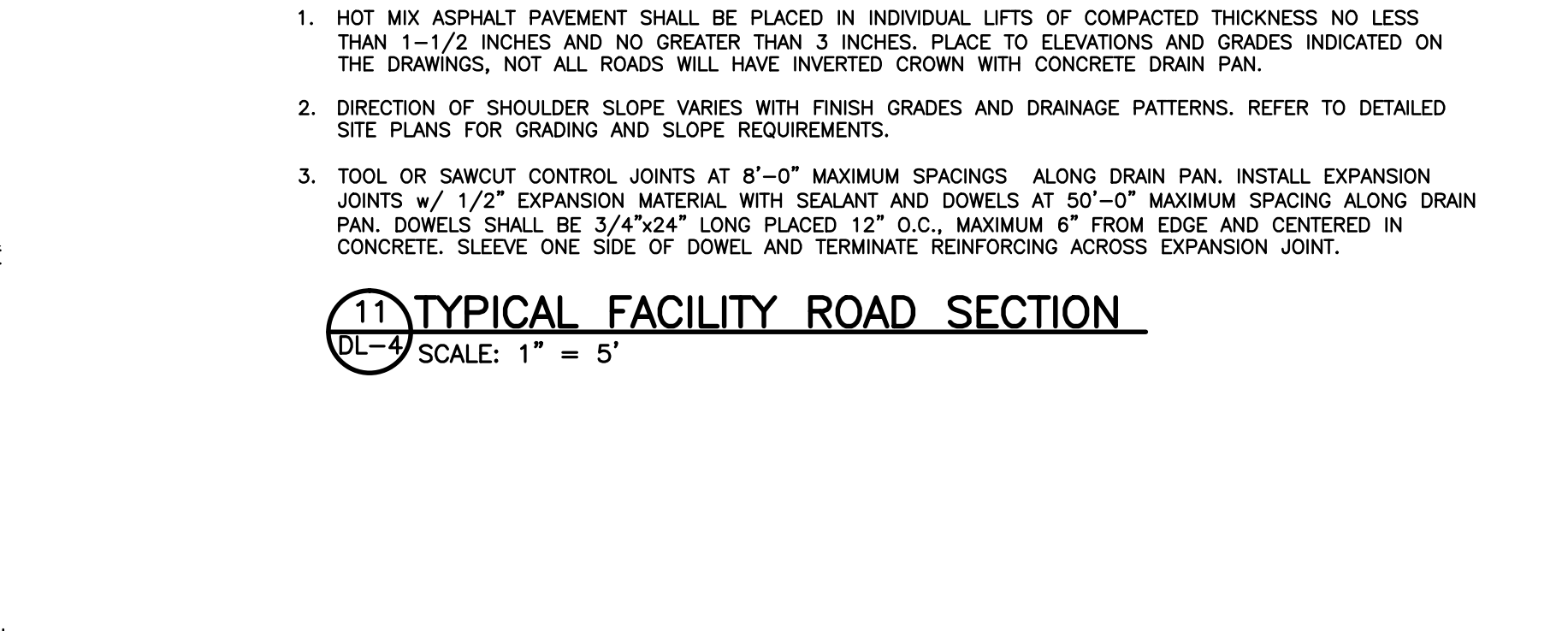
**9 REINFORCED CONCRETE PIPE ENCASEMENT**  
DL-4 SCALE: NONE

- NOTE:  
1. MAXIMUM ALLOWABLE SPAN FOR THE CONFIGURATION SHOWN ABOVE SHALL BE 11'-6\"/>



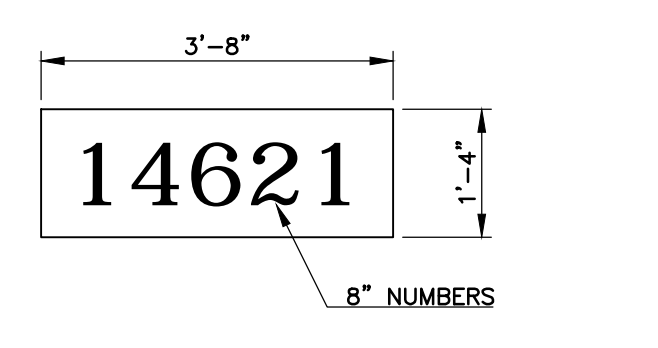
**10 REINFORCED CONCRETE GRADE BEAM**  
DL-4 SCALE: NONE

- NOTE:  
1. MAXIMUM ALLOWABLE SPAN FOR THE CONFIGURATION SHOWN ABOVE SHALL BE 7'-0\"/>



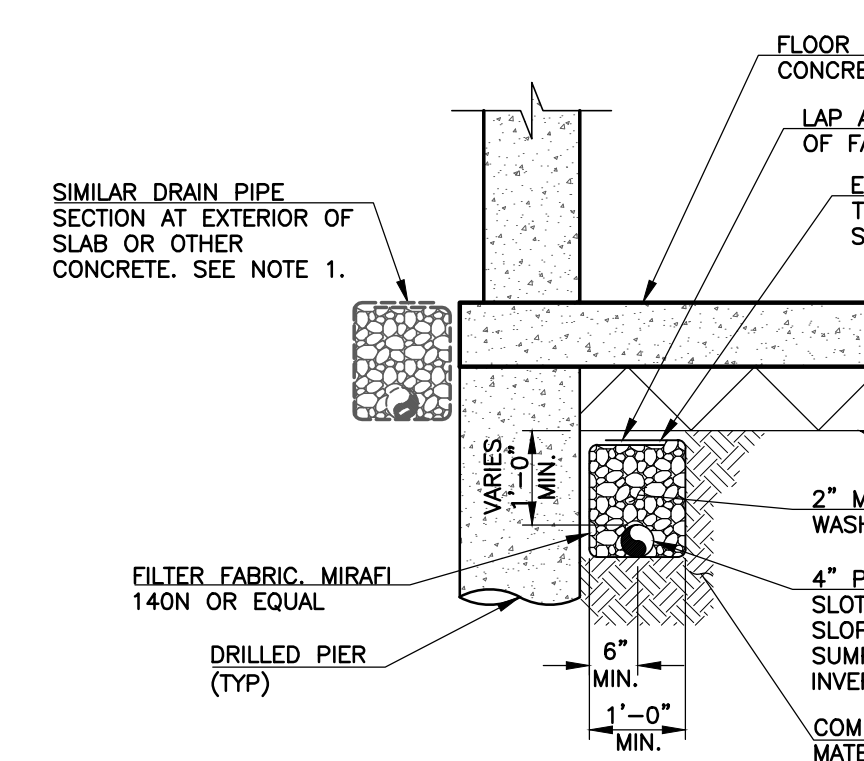
**11 TYPICAL FACILITY ROAD SECTION**  
DL-4 SCALE: 1\"/>

- NOTES:  
1. HOT MIX ASPHALT PAVEMENT SHALL BE PLACED IN INDIVIDUAL LIFTS OF COMPACTED THICKNESS NO LESS THAN 1-1/2 INCHES AND NO GREATER THAN 3 INCHES. PLACE TO ELEVATIONS AND GRADES INDICATED ON THE DRAWINGS, NOT ALL ROADS WILL HAVE INVERTED CROWN WITH CONCRETE DRAIN PAN.  
2. DIRECTION OF SHOULDER SLOPE VARIES WITH FINISH GRADES AND DRAINAGE PATTERNS. REFER TO DETAILED SITE PLANS FOR GRADING AND SLOPE REQUIREMENTS.  
3. TOOL OR SAWCUT CONTROL JOINTS AT 8'-0\"/>



**12 ADDRESS SIGN DETAIL**  
DL-4 SCALE: 1/2\"/>

- NOTE:  
1. SIMILAR SECTIONS APPLY WHERE THE DRAIN PIPE IS TO BE INSTALLED AT THE EXTERIOR OF SLABS OR OTHER CONCRETE. THE SAME DIMENSIONS AND DETAILS FOR THE PIPE, ROCK AND FABRIC APPLY TO THESE AREAS AS WELL. SEE NOTE 2.  
2. WHERE DRAIN PIPE IS PLACED NEXT TO SLABS OR OTHER CONCRETE THE TOP OF ROCK AND FABRIC SHALL EXTEND UP TO THE TOP OF ADJACENT SLAB OR CONCRETE.



**8 TYPICAL WALL PIPE SUPPORT**  
DL-4 SCALE: NONE

- NOTE:  
1. SIMILAR SECTIONS APPLY WHERE THE DRAIN PIPE IS TO BE INSTALLED AT THE EXTERIOR OF SLABS OR OTHER CONCRETE. THE SAME DIMENSIONS AND DETAILS FOR THE PIPE, ROCK AND FABRIC APPLY TO THESE AREAS AS WELL. SEE NOTE 2.  
2. WHERE DRAIN PIPE IS PLACED NEXT TO SLABS OR OTHER CONCRETE THE TOP OF ROCK AND FABRIC SHALL EXTEND UP TO THE TOP OF ADJACENT SLAB OR CONCRETE.

**8 TYPICAL PERIMETER DRAIN PIPE SECTION**  
DL-4 SCALE: NONE

- NOTE:  
1. SIMILAR SECTIONS APPLY WHERE THE DRAIN PIPE IS TO BE INSTALLED AT THE EXTERIOR OF SLABS OR OTHER CONCRETE. THE SAME DIMENSIONS AND DETAILS FOR THE PIPE, ROCK AND FABRIC APPLY TO THESE AREAS AS WELL. SEE NOTE 2.  
2. WHERE DRAIN PIPE IS PLACED NEXT TO SLABS OR OTHER CONCRETE THE TOP OF ROCK AND FABRIC SHALL EXTEND UP TO THE TOP OF ADJACENT SLAB OR CONCRETE.

REVISIONS		REVISIONS			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
13	01/09/2012	ISSUED FOR CONSTRUCTION PER PPRBD BUILDING PERMIT #49302 (EQUIP. MAINT. & STO. BLDG.)	1	03/30/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (SECONDARY CLARIFIER COMPLEX)
14	01/25/2012	ISSUED FOR PD BUILDING VALUE ENGINEERING REVIEW AND COMMENTS	2	04/08/2011	ISSUED FOR PREPARATION OF CMO
15	04/18/2012	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (PUMPING AND DISINFECTION BLDG)	3	05/17/2011	ISSUED FOR PREPARATION OF CMO
16	05/21/2012	ISSUED FOR CONSTRUCTION PER PPRBD BLDG PERMIT #8993 (PUMP AND DISINFECTION BLDG)	4	06/10/2011	ISSUED FOR CONSTRUCTION (SECONDARY CLARIFIER COMPLEX)
17	06/21/2012	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (BLOWER BUILDING)	5	09/20/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (HEADWORKS BUILDING)
18	06/29/2012	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (OPERATIONS BUILDING)	6	07/28/2011	ISSUED FOR FOUNDATION PERMIT SUBMITTAL TO PPRBD (EQUIP. MAINT. AND STO. BLDG)
19	07/17/2012	ISSUED FOR CONSTRUCTION PER PPRBD BLDG PERMIT NO. 120081 (BLOWER BLDG)	7	08/05/2011	ISSUED FOR CONSTRUCTION PER PPRBD BUILDING PERMIT #8810 (HEADWORKS BLDG)
20	08/15/2012	ISSUED FOR CONSTRUCTION PER PPRBD BUILDING PERMIT #35220 (OPERATIONS BLDG)	8	08/24/2011	ISSUED FOR CONSTRUCTION PER PPRBD FDN PERMIT #49302 (EQUIP. MAINT. AND STO. BLDG)
			9	09/16/2011	ISSUED FOR CMO PREPARATION (PUMPING AND DISINFECTION BUILDING FOUNDATION)
			10	09/16/2011	ISSUED FOR FOUNDATION PERMIT SUBMITTAL TO PPRBD (PUMPING AND DISINFECTION BLDG)
			11	10/17/2011	ISSUED FOR CONSTRUCTION PER PPRBD FOUNDATION PERMIT #8993 (PUMP AND DISINFECTION BLDG)
			12	11/23/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (EQUIP. MAINT. & STO. BLDG)

REVISIONS		REVISIONS			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
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2	04/08/2011	ISSUED FOR PREPARATION OF CMO			
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5	09/20/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (HEADWORKS BUILDING)			
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7	08/05/2011	ISSUED FOR CONSTRUCTION PER PPRBD BUILDING PERMIT #8810 (HEADWORKS BLDG)			
8	08/24/2011	ISSUED FOR CONSTRUCTION PER PPRBD FDN PERMIT #49302 (EQUIP. MAINT. AND STO. BLDG)			
9	09/16/2011	ISSUED FOR CMO PREPARATION (PUMPING AND DISINFECTION BUILDING FOUNDATION)			
10	09/16/2011	ISSUED FOR FOUNDATION PERMIT SUBMITTAL TO PPRBD (PUMPING AND DISINFECTION BLDG)			
11	10/17/2011	ISSUED FOR CONSTRUCTION PER PPRBD FOUNDATION PERMIT #8993 (PUMP AND DISINFECTION BLDG)			
12	11/23/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (EQUIP. MAINT. & STO. BLDG)			

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**DETAILS AND SECTIONS**  
HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY  
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

**GMS, INC.**  
CONSULTING ENGINEERS  
611 N. WEBER, SUITE 300  
COLORADO SPRINGS, COLORADO 80903

**SHEET DL-4**  
OF

DRAWN: MAM  
DESIGNED: MAM  
CHECKED: RJS  
DATE: 2010  
PROJECT NO.: 20166.510  
GMS FILE NO.: 2599

2010 GMS, INC.

XREF FILENAME: G:\  
PLOT STYLE FILE: 10252.CUT  
FILENAME: G:\PLANS\20166\510\DL-4\DL-4.DWG